

WHAT IS CLAIMED IS:

1. (currently amended) Transgenic non-human animal expressing a multимutated form of presenilin 1 and allowing an apoptotic phenomenon to be detected in a renewable peripheral tissue.
2. (original) Transgenic animal according to claim 1, characterized in that it allows an apoptotic phenomenon to be detected in its lymphocytes.
3. (previously amended) Transgenic Animal according to claim 2, characterized in that it allows an apoptotic phenomenon to be detected in its T lymphocytes.
4. (original) Transgenic animal according to claim 1, characterized in that the mutations in the PS1 gene are the mutations M146L, H163R, A246E, L286V, C410Y, I143T, L235P, P264L, P267S, E317G, G384A, L392V, A426P and/or P436S.
5. (original) Animal according to claim 4, characterized in that the mutations are M146L, H163R, A246E, L286V, C410Y, combined with each other.
6. (previously amended) A method for detecting compounds intended for the treatment of neurodegenerative diseases, comprising exposing said compounds to the animal of any one of claims 1 to 5.
7. (previously amended) Cell extracted from the animal of any one of claims 1 to 5.
8. (previously amended) A method for detecting compounds intended for the treatment of neurodegenerative diseases comprising exposing said compounds to said cell of any one of claims 1 to 5.